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CENTRAL INTELLIGENCE AGENCY

RE RT NO. []

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INFORMATION REPORT

COUNTRY East Germany

DATE DISTR. 27 September 1952

25X10 SUBJECT Reports by the NEF Department of the HF Telecommunica-NO. OF PAGES 1
tions Plant in Berlin-Oberschoeneweide

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Attached in the Annex are copies of four reports by the NEF Department (Nachrichtentechnische Entwicklung und Fabrikation) (Development and Production of Signal-Communications Equipment) of the HF Telecommunications Plant at 1-5 Ostendstrasse, Berlin-Oberschoeneweide. The entire reports were photographed but prints were made of only the more important pages. Annex 1 is a report, dated 27 July 1950, prepared by one Kurt Steffenhagen and one Kirschnig (fnu), concerning the conversion of a 2-kilocycle-per-second sine oscillation (2 kHz Sinus-Schwingung) into code impulses, employing a 12-channel system, and its reconversion at the receiving end; and a report, dated 28 May 1950, by Kurt Steffenhagen and by Kirschnig concerning a treatise "An Experimental Multichannel Pulse-Code-Modulation System of Toll Quality" by L. A. Meacham and E. Peterson, Bell System Technical Journal, Volume 27, No 1, 1948, pages 1 to 43. The reports are based exclusively on previous American and German publications, which are listed on page 42 of the Annex. A brief summary of these publications has been published by Dipl. Ing. Kurt Steffenhagen in the "Nachrichtentechnik" (Signal-Communications Engineering, 1952, No 1, pages 24 to 27; and

No 3, pages 79 to 83. Annex 2 is a report, dated 10 August 1950, by one Springstein (fnu), concerning experiments with mixing diodes. Annex 3 is a report, dated 31 December 1950, by one Lauenroth (fnu), concerning the development of EWT side-band sets. This development of EWT sets for telephony over high-tension lines is based on research work performed in 1949 on Soviet orders. Four sample sets built for the high-tension net of Eastern Germany were tested on the Friedrichsfelde (N 53/Z 94)-Weimar (M 51/J 57) line in early 1951.

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